# New College of Florida, January 18-22, 2021, 8:30AM – 12:30PM

## Presenters

### Bahar Fardanian

### Lili Xu

## Arjuna Chala

## Dan Camper

## Overview

### HPCC Systems is a distributed big data technology used by LexisNexis Risk Solutions. It was, in fact, created by LNRS long before Hadoop came along and it still serves as the core technology behind a $3B/year business.

### In this workshop you will be introduced to the HPCC Systems technology and to the data flow language used to program on it, ECL. The data you will be examining is a detailed global schedule of airline flights. Each record contains not only takeoff/landing places and times, but details regarding the plane, meals, and crew are included as well.

## 

## Agenda

### All days

Four-hour workshop

There will be at least one 10-15 minute break each day

**Tuesday, January 19**

Introduction to HPCC Systems

Introduction to ECL

Student CloudIDE setup

Data Discovery — getting acquainted with the flight data

Review data dictionary

Profiling the actual data

Manual inspection via simple ECL

ECL concepts

Practical ECL with flight data

Arjuna Chala: The New Big Data Journey

**Wednesday, January 20**

ECL concepts (cont'd)

Practical ECL with flight data (cont'd)

**Thursday, January 21**

ECL (cont'd)

Practical ECL with flight data

Dan Camper: Data Profiling

**Friday, January 22**

ECL Machine Learning

## Practical ECL ML

## Student Requirements

### Each student should bring a laptop

## 

## Student Pre-work (recommended, but optional)

### Learn about ECL

HPCC Systems ECL Concepts videos

[HPCC Systems ECL Concepts Part 1](https://www.youtube.com/watch?v=Lk78BCCtM-0)

[HPCC Systems ECL Concepts Part 2](https://www.youtube.com/watch?v=MyViNZaIeGM)

[HPCC Systems ECL Concepts Part 3](https://www.youtube.com/watch?v=Z70ARWfxZQA)

[HPCC Systems ECL Concepts Part 4](https://www.youtube.com/watch?v=AvQGDCPac8E)

[HPCC Systems ECL Concepts Part 5](https://www.youtube.com/watch?v=bq4WN5XZMTU)

[HPCC Systems ECL Concepts Part 6](https://www.youtube.com/watch?v=iSGaqQMKkOs)

Learn ECL: <https://hpccsystems-solutions-lab.github.io/>